

# **National Guard Bureau Distance Learning Network**



## **DUAL MULTI-MEDIA CLASSROOM CAPABILITIES SCENARIOS**

**Prepared by:**

**Distance Learning Collaborative Technologies  
1 October 1999**

# INSTALLATION SIGN-OFF FORM

CLASSROOM	
<i>Region:</i>	
<i>STARC:</i>	
Site POC	Telephone #

INSTALLATION TEAM	
Team POC	Telephone #

INSTALLATION			
Start Date		Classroom Status	
		<input type="checkbox"/> <i>Open to Install</i> <input type="checkbox"/> <i>Installation Pending</i> (Explain below)	
End Date		Classroom Status	
		<input type="checkbox"/> <i>Installation Completed</i> <input type="checkbox"/> <i>Installation Pending</i> (Explain below)	
SIGN-OFF			
<p>The classroom has been installed to support the network and multimedia capabilities specified in the <i>DLN Classroom Capabilities Scenarios</i>. The scenarios have been successfully performed to demonstrate that the distance learning network and multimedia capabilities are operational.</p>			
<i>Date</i>		<i>NGB Representative</i>	<i>Signature</i>
<i>Date</i>		<i>EDS/DLCT Representative</i>	<i>Signature</i>

# DUAL MULTI-MEDIA CLASSROOM CAPABILITIES SCENARIOS

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# DUAL MULTI-MEDIA CLASSROOM CAPABILITIES SCENARIOS

## I. CAC MULTIMEDIA CAPABILITIES

### A. Required Items

#### 1. Software

No.	Item
1	Sample MS Word file

#### 2. Other

No.	Item
1	Sample VHS tape to play on the VCR
2	Blank VHS tape to record on the VCR
3	Sample 8 ½ " x 11" document.
4	Blank 8 ½" x 11" sheets of paper
5	Classroom Printer/Copier/Fax number to test fax transmissions
6	User IDs to log on to the PCs
7	STARC router address
8	NOC telephone number to collaborate with for VTC
9	NOC fax number

## B. Required Setup

### 1. Preparation

Step	Action
1	Classroom is fully installed.
2	All equipment power is connected.
3	All devices at the Cabinet and Instructor's desk are powered on.
4	<b>PHONE</b> the NOC. <b>INFORM</b> them that all devices are connected and ready to be pinged. (The NOC will conduct an independent capabilities scenario. They will ping every network device in the classroom.)

### 2. Log on to Crestron Touch Panel

Step	Action
1	<b>TOUCH</b> anywhere on the opening screen.
2	<i>User Password</i> screen will appear.
3	<b>ENTER</b> password.
4	The <i>Main Menu</i> will appear.

### 3. Seat IR Probes

The IR probe must rest directly on top of the IR sensor of the equipment to enable remote control from the Touch Panel. The IR sensors are hard to locate; locating them will require the joint effort of two team members: one to work the controls at the Touch Panel, the other to locate the IR probe sensors at the devices. The following devices need their IR probes seated: the camera, 2 NetTVs, and the VCR (Cabinet).

NOTE: The IR probes may have already been seated during the installation.

#### a) Camera

At the Touch Panel perform the following:

Step	Action
1	From the <i>Main Menu</i> , <b>PRESS</b> the <i>Multimedia Devices</i> button.
2	The <i>Multimedia Control</i> screen will appear.
3	<b>PRESS</b> the <i>Camera</i> button.
4	The <i>Camera Control</i> screen will appear.
5	<b>USE</b> the pan-tilt-zoom controls to try to move the camera.

At the Camera perform the following:

Step	Action
1	<b>TAPE</b> the top of the IR probe with transparent tape.
2	<b>MOVE</b> the IR probe around the IR sensor panel until the camera responds to the Touch Panel control.
3	<b>TAPE</b> the IR probe securely to the device.

## b) NetTVs

At the Touch Panel perform the following:

Step	Action
1	<b>PRESS</b> the <i>Previous Menu</i> button.
2	The <i>Multimedia Control</i> screen will appear.
3	<b>PRESS</b> the <i>TV</i> button.
4	The <i>TV Control</i> screen will appear.
5	<b>PRESS</b> the <i>TV Left</i> button.
6	<b>PRESS</b> the TV channel controls until the TV responds. (NOTE: The Cabinet VCR will be registering the channel controls.)
7	<b>REPEAT</b> for the Right TV.

At the TVs perform the following:

Step	Action
1	<b>TAPE</b> the top of the IR probe with transparent tape.
2	<b>MOVE</b> the IR probe around the IR sensor panel until the TV responds to the Touch Panel control.
3	<b>TAPE</b> the IR probe securely to the device.
4	<b>REPEAT</b> for the Right TV.

## c) VCR

At the Touch Panel perform the following:

Step	Action
1	<b>PRESS</b> the <i>Previous Menu</i> button.
2	The <i>Multimedia Control</i> screen will appear.
3	<b>PRESS</b> the <i>Cabinet VCR</i> button.
4	The <i>Cabinet VCR</i> screen will appear.
5	<b>INSERT</b> a sample VHS tape in the VCR.
6	<b>PRESS</b> the forward (FWD) and rewind (REW) buttons until the VCR responds. (NOTE: The tape count on the VCR will increase and/or decrease in response to the controls.)

At the Cabinet VCR perform the following:

Step	Action
1	<b>TAPE</b> the top of the IR probe with transparent tape.
2	<b>MOVE</b> the IR probe around the IR sensor panel until the cabinet VCR responds to the Touch Panel control.
3	<b>TAPE</b> the IR probe securely to the device.

## 4. Control Panel

Use the Touch Panel to test the basic functionality of the devices.

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### a) Left TV

Step	Action
1	<b>GO TO</b> the <i>Multimedia Devices</i> screen.
2	<b>PRESS</b> the <i>TV Select</i> button.
3	The <i>TV Control</i> screen will appear.
4	<b>PRESS</b> the <i>Left TV</i> button.
5	<b>VERIFY</b> that all the left TV controls are operational.

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### b) Right TV

Step	Action
1	<b>GO TO</b> the <i>Multimedia Devices</i> screen.
2	<b>PRESS</b> the <i>TV Select</i> button.
3	The <i>TV Control</i> screen will appear.
4	<b>PRESS</b> the <i>Right TV</i> button.
5	<b>VERIFY</b> that all the Right TV controls are operational.

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### c) Camera

Step	Action
1	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
2	<b>MAP</b> the Camera (source device) to the Left TV (destination device).
3	The Camera video input will appear on the Left TV.
4	<b>PRESS</b> the <i>Main Menu</i> button.
5	<b>PRESS</b> the <i>Multimedia Devices</i> button.
6	The <i>Multimedia Control</i> screen will appear.
7	<b>PRESS</b> the <i>Camera</i> button.
8	The <i>Camera Control</i> screen will appear.
9	<b>VERIFY</b> that all the camera controls are operational.

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### d) Push-to-Talk Microphones

Step	Action
1	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
2	<b>MAP</b> the Camera (source device) to the Left TV and to the Right TV (destination devices).
3	The Camera video input will appear on the TVs.
4	<b>PRESS</b> the button on the Push-to-Talk microphones, one at a time. <b>VERIFY</b> that the camera hones in on the activated microphone and returns to the "Room" position after the microphone is released.



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#### e) Cabinet VCR

Step	Action
1	<b>INSERT</b> a sample VHS into the Cabinet VCR.
2	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
3	<b>MAP</b> the Cabinet VCR (source device) to the Right TV (destination device).
4	The cabinet VCR output will appear on the Right TV.
5	<b>PRESS</b> the <i>Multimedia Devices</i> button.
6	The <i>Multimedia Control</i> screen will appear.
7	<b>PRESS</b> the <i>Cabinet VCR</i> button.
8	The <i>Cabinet VCR</i> screen will appear.
9	<b>VERIFY</b> that all the cabinet VCR controls are operational.

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#### f) Instructor's VCR

Step	Action
1	<b>INSERT</b> a sample VHS into the Instructor's VCR.
2	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
3	<b>MAP</b> the Instructor's VCR (source device) to the Right TV (destination device).
4	The instructor's VCR output will appear on the Right TV.
5	<b>PRESS</b> the <i>Multimedia Devices</i> button.
6	The <i>Multimedia Control</i> screen will appear.
7	<b>PRESS</b> the <i>Instructor's VCR</i> button.
8	The <i>Instructor's VCR</i> screen will appear.
9	<b>VERIFY</b> that all the cabinet VCR controls are operational.

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#### g) Volume Control

Step	Action
1	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
2	<b>MAP</b> the Satellite/VCR/CTV (source device) to the Left TV (destination device).
3	MAP the Satellite/VCR/CTV (source device) to the classroom Speakers (destination device).
4	If nothing appears on the left TV monitor, <b>USE</b> the TV control panel to channel the TV to a station.
5	<b>VERIFY</b> that the sound is coming from the classroom speakers. <b>VERIFY</b> that all volume control features are operational.

## 5. Instructor's Desk and/or Student PCs

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### a) Log On

Step	Action
1	<b>POWER ON</b> the PC
2	After the PC is powered up, the network prompt should appear. <b>TYPE</b> the user ID <b>TYPE</b> the password <b>PRESS Enter</b>
3	<b>OBTAIN</b> the STARC router address to ping to the STARC router. <b>GO TO</b> the MS/DOS prompt <b>TYPE:</b> ping <STARC router address>
4	<b>CONFIRM</b> that the PC can ping to the router
	Ability to log on to the NT domain Ability to ping to the STARC router

## II. CAC Networking Capabilities

### A. Personal Computers

#### 1. Perform Primary Functions on Instructor and Student PCs

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##### a) *Execute Windows Applications*

Step	Action
1	<b>STARTUP</b> "Windows"
2	<b>EXECUTE</b> "Windows Explorer"
3	<b>VERIFY</b> "Windows Explorer" is operational
4	<b>EXIT</b>
5	<b>EXECUTE</b> "PowerPoint"
6	<b>VERIFY</b> "PowerPoint" is operational
7	<b>EXIT</b>
8	<b>EXECUTE</b> "MS Word"
9	<b>VERIFY</b> "MS Word" is operational
	Ability to access and operate local PC applications and productivity tools, such as Windows Explorer, PowerPoint, and MS Word.

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##### b) *Print a File to the Network Printer*

Step	Action
1	<b>OPEN</b> a sample "MS Word" file
2	<b>PRINT</b> the file to the network printer
3	<b>CONFIRM</b> that the document has successfully printed (Postscript printing is not available on this printer.)
4	<b>EXIT</b>
	Ability to print files from the PC to the network printer.

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##### c) *Execute Netscape*

Step	Action
1	<b>RUN</b> "Netscape Navigator"
2	In the Netsite field, <b>TYPE</b> : <i>http://www.cnn.com</i>
3	<b>CONFIRM</b> that the CNN home page is found
4	<b>EXIT</b>
	Ability to access the internet via Netscape.

## 2. Perform Net Meetings

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### a) Instructor's PC

Step	Action
1	<b>EXECUTE</b> "MS NetMeeting"
2	The instructor's PC will be the host. <b>GO TO</b> the <i>Call</i> menu. <b>SELECT</b> the <i>Host Conference</i> option. <b>SELECT</b> the <i>Place Advanced Call</i> option. <b>SELECT</b> <i>TCP-IP</i> option.
3	(See Step 2 of the Student PCs)
4	From the host PC, <b>TYPE</b> the IP address of the other PC. <b>PRESS</b> the <i>Call</i> button.
5	(See Step 3 of the Student PCs)
6	<b>GO TO</b> <i>Tools</i> menu. <b>SELECT</b> <i>Chat</i> .
7	<b>GO TO</b> <i>Tools</i> menu. <b>SELECT</b> <i>Whiteboard</i> .
8	<b>WRITE/DRAW</b> messages on the whiteboard
9	<b>CONFIRM</b> that the Instructor's PC workstation can see everyone's graphical input on the whiteboard.
	Ability to participate in a NetMeeting with video capabilities. Ability to view in real-time visual input from all participating PCs.

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### b) Student PCs

Step	Action
1	<b>EXECUTE</b> "MS NetMeeting" on all PCs.
2	<b>DETERMINE</b> the IP address: <b>RUN</b> "WIN IP Configuration"
3	(See Step 4 of the Instructor's PC)
4	The <i>Accept Call</i> prompt will appear. <b>PRESS</b> the Yes button.
5	<b>GO TO</b> the <i>Tools</i> menu. <b>SELECT</b> <i>Chat</i> .
6	<b>GO TO</b> <i>Tools</i> menu. <b>SELECT</b> <i>Whiteboard</i> .
7	<b>WRITE/DRAW</b> messages on the whiteboard.
8	<b>CONFIRM</b> that all the PC workstations can see everyone's graphical input on the whiteboard.
	Ability to participate in a NetMeeting with video capabilities. Ability to view in real-time visual input from all participating PCs.

### 3. Access V-Caster on the Instructor's and Student PCs

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#### a) V-Caster PC

Step	Action
1	<b>GO TO</b> the AB switch (at the instructor's desk), <b>PRESS</b> the <i>Select</i> button until Port 2 is activated.
2	<b>EXECUTE</b> V-Caster.
3	<b>VERIFY</b> the following settings: BIT Rate = 800000 Video Input = Video 1 Video Format = NTSC MPEG = 1
4	The numbers will increase. This will indicate that the V-Caster is running.
5	From the Touch Panel, <b>MAP</b> the Satellite to the V-Caster ( <b>GO TO</b> the <i>Video/Audio Mapper</i> screen; <b>SELECT</b> <i>Satellite</i> from the <i>Source</i> options; <b>SELECT</b> <i>V-Caster</i> from the <i>Destination</i> options.) NOTE: If the classroom does not have a Satellite (RF) hookup, then from the Touch Panel map a VCR to the V-Caster. After the VCR is mapped, <b>GO TO</b> the VCR control panel and play a sample tape.
	Ability to operate and view the V-Caster PC input.

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#### b) V-Player on the Instructor's PC and Student PCs

Step	Action
1	With the V-Caster mapped as above in step 5.
2	<b>EXECUTE</b> "National Guard Demo" on the desktop.
3	<b>PRESS</b> "Distant Learning via the Next Generation Internet"
4	<b>PRESS</b> "Live broadcast"
5	<b>PRESS</b> "Local"
6	<b>CONFIRM</b> that the VCR/Satellite video appears on the PC monitor.
7	<b>MAP</b> all of the other source devices to the V-Caster. <b>CONFIRM</b> that each source device video appears on the PC monitors.
	Ability to operate V-Player and access the V-Caster from the instructor's and student PCs.

#### 4. Access V-Cache

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##### a) V-Caster PC

Step	Action
1	From the Touch Panel, <b>MAP</b> the Satellite to the V-Caster ( <b>GO TO</b> the "Video/Audio Mapper" screen; <b>SELECT</b> Satellite from the Source options; <b>SELECT</b> "V-Caster" from the Destination options.) NOTE: If the classroom does not have a Satellite (RF) hookup, then from the Touch Panel map a VCR to the V-Caster. After the VCR is mapped, <b>GO TO</b> the VCR control panel and play a sample tape.
2	<b>EXECUTE</b> V-Recorder (START/PROGRAMS/VCASTER2/Vrecorder).
3	<b>VERIFY</b> the following settings: BIT Rate = 800000 File = test2.mpg
4	<b>PRESS OK</b> <b>PRESS Record</b> NOTE: Record for 30 seconds. <b>PRESS Stop</b>
	Ability to execute V-Recorder from the V-Caster PC to record to the V-Cache. Ability to access (record to and play from) the V-Cache.

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##### b) Instructor's PC and Student PCs

Step	Action
1	<b>EXECUTE</b> "V-Player"
2	<b>EXECUTE</b> File/Open
3	On "Everything on Cxxxxxxx01" <b>DOUBLE-CLICK</b> "Test2"
4	<b>CONFIRM</b> that the recording was successful.
	Ability to execute V-Record from the instructor's and student PCs to record to the V-Cache. Ability to access (record to and play from) the V-Cache.

## 5. Modem Dial-Up

Performed on a student PC with an internal modem. (The classroom installs will have at least one student PC with a modem as an additional feature. These procedures need to be performed at only one of them.)

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### a) Student PC with Modem

Step	Action
1	<b>GO TO</b> Start/Programs/Accessories/HyperTerminal
2	<b>DOUBLE-CLICK</b> the "Hypertm.exe" file
3	The <i>Connection Description</i> screen will appear
4	In the Name field, <b>TYPE</b> : Crestron <b>PRESS</b> the <i>Return</i> key
5	The <i>Phone Number</i> screen will appear
6	<b>TYPE</b> the following numbers in the corresponding fields: Country Code: 1 Area Code: 201 Phone Number: 767-5506 <b>PRESS</b> the <i>OK</i> button
7	From the main screen, <b>GO TO</b> Call/Connect
8	Confirm that the PC has successfully connected to the Crestron Bulletin Board Service
	Ability to use the modem for dial-up connectivity.

## B. Instructor's PC

### 1. Printer/Copier/Fax

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#### a) *Print to the Printer/copier/fax*

Step	Action
1	<b>EXECUTE</b> "MS Word"
2	<b>OPEN</b> a sample file.
3	<b>PRINT</b> the file.
4	<b>CONFIRM</b> that the document has successfully printed to the Printer/Copier/Fax
	Ability to print a file from the instructor's PC to the printer/copier/fax machine.

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#### b) *Produce paper copies of documents*

Step	Action
1	<b>FEED</b> a sample 8 ½" x 11" document into the printer/copier/fax machine.
2	<b>PRESS</b> the <i>Copy</i> button.
3	<b>CONFIRM</b> that the machine has printed a copy of the document successfully.
	Ability to make copies from the printer/copier/fax machine.

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#### c) *Send/Receive fax*

Step	Action
1	<b>PHONE</b> the NOC to inform them that a sample fax would be sent as part of the testing scenarios. <b>OBTAIN</b> their fax number. NOC fax number: <b>REQUEST</b> them to fax a test sample back. <b>PROVIDE</b> them with the appropriate return fax number. Printer/Copier/Fax number: NOC telephone number:
2	<b>FEED</b> a sample 8 ½" x 11" document into the machine.
3	<b>DIAL</b> the NOC fax number.
4	<b>PRESS</b> the "Send" button.
5	<b>CONFIRM</b> that the fax has been successfully sent and a fax has been successfully received.
	Ability to send and receive faxes from the printer/copier/fax machine.



## 2. Video Teleconference

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### a) Point-to-Point On-Net

Step	Action
1	<b>PHONE</b> the NOC. Obtain the following: - Scheduled time to dial-up the NOC or DEMO classroom for a trial VTC - The On-Net DID and Arlington V-Gate ATM address
2	<b>GO TO</b> Start/Programs/Zydacron OnWAN/FVC MGS Client Status <b>VERIFY</b> that the "Enable Access to V-Gate" option is <b>CHECKED</b> From the "V-Gate Server" option, <b>SELECT</b> "VGate Arl"
3	Using the Touch Screen, <b>GO TO</b> the Audio/Video Mapper control screen <b>MAP</b> the "Camera" to the "Outgoing Video" <b>MAP</b> the "Instructor's PC" to the "Instructor's Monitor" <b>MAP</b> the "Incoming Conference" to the "Left TV monitor"
4	At the assigned dial-up time perform the following: From the Instructor's PC, <b>GO TO</b> Start/Programs/Video Teleconferencing" <b>EXECUTE</b> the "ON-WAN" application <b>DIAL</b> the NOC/DEMO classroom.
5	After a VTC connection is established, <b>USE</b> the Push-to-Talk microphones and <b>CONFIRM</b> that the video and audio transmissions are completely operational. (The NOC can hear and see the classroom, and vice versa.) <b>CONFIRM</b> that the camera hones in on activated Push-to-Talk microphones.
6	<b>ALLOW</b> the NOC (remote site) to control the classroom camera. <b>CONFIRM</b> that the NOC can successfully control the classroom camera.
7	From the Instructor's PC, use the ON-WAN program to control the NOC camera (remote site) by performing the following: From the ON-WAN application go the TOOLS/Camera Controller pull-down menu. The Camera Controller screen will appear. <b>SELECT</b> the "Far-End Camera" option. <b>PRESS</b> the FECC button. The green bar on the right of the button will flash until the connection is completed. <b>USE</b> the Pan/Zoom/Tilt controls to remotely control the NOC camera.
8	<b>CONFIRM</b> that the classroom Instructor can control the remote camera.

Step	Action
9	<p><b>CONFIRM</b> that the video and audio transmissions are completely operational for the following:</p> <ul style="list-style-type: none"> <li>• <b>PUT</b> a sample document on the document camera. From the Touch Screen <b>MAP</b> the “Document Camera” to the “Out-going Conference”</li> <li>• From the Touch Screen, <b>MAP</b> the “Cabinet VCR” to the “Out-going Conference”</li> <li>• From the Touch Screen, <b>MAP</b> the “Instructor’s VCR” to the “Out-going Conference”</li> <li>• From the Instructor’s PC, <b>MINIMIZE</b> the ON-WAN application. <b>EXECUTE</b> PowerPoint <b>MAP</b> the “Instructor’s PC” to the “Out-going Conference”</li> </ul>
	<p>Ability for up to 4 students to participate in training sessions using Push-To-Talk microphones or a conferencing speaker phone</p> <p>Ability to conduct a VTC with audio and video input from the camera and microphones, the document camera, the cabinet VCR, the instructor’s VCR, and the instructor’s PC.</p> <p>Ability to control a remote site’s camera from the classroom, and vice versa. (Ability for a remote site to control the classroom camera.)</p>

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#### b) Multi-Point On-Net

Step	Action
1	<p>Using the Touch Screen, <b>GO TO</b> the <i>Audio/Video Mapper</i> control screen <b>MAP</b> the “Camera” to the “Outgoing Video” <b>MAP</b> the “Instructor’s PC” to the “Instructor’s Monitor” <b>MAP</b> the “Instructor’s PC” to the Left or Right TV.</p>
2	<p><b>PHONE</b> the NOC and schedule a time to dial-up the MCU in the NOC. <b>OBTAIN</b> the MCU number.</p>
3	<p>At the assigned dial-up time perform the following: From the Instructor’s PC, <b>GO TO</b> “Start/Programs/Video Teleconferencing” <b>EXECUTE</b> the “ON-WAN” application <b>DIAL</b> the NOC’s MCU.</p>
4	<p>After a VTC connection is established, <b>USE</b> the Push-to-Talk microphones and <b>CONFIRM</b> that the video and audio transmissions are completely operational. (The other connected VTC sessions can hear and see the classroom, and vice versa.) <b>CONFIRM</b> that the camera hones in on activated Push-to-Talk microphones.</p>
	<p>Ability to perform a VTC connection to a remote site’s MCU.</p>

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**a) Point-to-Point Off-Net**

Step	Action
1	<b>PHONE</b> the NOC. Obtain the following: - Scheduled time to dial-up the NOC or DEMO classroom for a trial VTC - The Off-Net (“live”) DID and Arlington V-Gate ATM address
2	<b>GO TO</b> Start/Programs/Zydacron OnWAN/FVC MGS Client Status <b>VERIFY</b> that the “Enable Access to V-Gate” option is <b>CHECKED</b> From the “V-Gate Server” option, <b>SELECT</b> the local V-Gate
3	Using the Touch Screen, <b>GO TO</b> the Audio/Video Mapper control screen <b>MAP</b> the “Camera” to the “Outgoing Video” <b>MAP</b> the “Instructor’s PC” to the “Instructor’s Monitor” <b>MAP</b> the “Incoming Conference” to the “Left TV monitor”
4	At the assigned dial-up time perform the following: From the Instructor’s PC, <b>GO TO</b> Start/Programs/Video Teleconferencing <b>EXECUTE</b> the “ON-WAN” application <b>DIAL</b> the NOC/DEMO classroom.
5	After a VTC connection is established, <b>USE</b> the Push-to-Talk microphones and <b>CONFIRM</b> that the video and audio transmissions are completely operational. (The NOC can hear and see the classroom, and vice versa.) <b>CONFIRM</b> that the camera hones in on activated Push-to-Talk microphones.

## C. General

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### 1. Polycom and Speaker Phone

NOTE: The speaker phone for the Push-to-Talk microphones and the Polycom will be connected to 2 different POTS lines.

Step	Action
1	<b>USE</b> the Polycom to call the NOC.
2	<b>COMMUNICATE</b> verbally back and forth, on the Polycom Omni-directional microphone.
3	<b>VERIFY</b> that two-way communication is operational.
	Ability to place phone calls.

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### 2. Dual VCR Feature (Play Tape/Record VTC)

From the Instructor's VCR:

Step	Action
1	<b>INSERT</b> a sample VHS tape into the Instructor's VCR.
2	From the Touch Screen, <b>MAP</b> the "Instructor's VCR" to "NET TV Right." <b>POWER ON</b> the "Instructor's VCR." <b>PRESS</b> the <i>Play</i> button. <b>CONFIRM</b> that the VCR output is seen and heard on the NET TV Right monitor.
	Ability to play a video tape presentation from the instructor's VCR and view it on a large screen monitor while simultaneously record the classroom camera input to the cabinet VCR.

From the Cabinet VCR:

Step	Action
1	<b>INSERT</b> a blank VHS tape into the Cabinet VCR.
2	From the Touch Screen, <b>MAP</b> the camera to the "Cabinet VCR" <b>PRESS</b> the record button from the "Cabinet VCR" control panel. After recording for several seconds, <b>PRESS</b> the <i>Stop</i> button. <b>PRESS</b> the <i>Rewind</i> button.
3	From the Touch Screen, <b>MAP</b> the "Cabinet VCR" to the "NET TV Right" monitor. <b>PRESS</b> the "PLAY" button from the Cabinet VCR control panel.
4	<b>CONFIRM</b> that the Cabinet VCR has successfully recorded the video input of the camera.
	Ability to play a video tape presentation from the instructor's VCR and view it on a large screen monitor while simultaneously record the classroom camera input to the cabinet VCR.

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### 3. Camera

Step	Action
1	<b>ASSIGN</b> a Team member as the “instructor” to test the Track mode.
2	From the Touch Panel, <b>MAP</b> the Camera to the TV Left and/or Right.
3	<b>PRESS</b> the <i>Autotrack (AT) On</i> button.
4	<b>PRESS</b> the <i>Frame Display</i> button.
5	A white frame will appear on the TV monitor.
6	<b>PRESS</b> the <i>Data Screen</i> button.
7	A data screen will appear on the TV monitor.
8	<b>PRESS</b> the <i>Chase</i> button until the Chase mode is 3.
9	<b>USE</b> the pan-zoom-tilt controls to zoom in on the instructor’s face.
10	When the resolution reaches at least 50, <b>PRESS</b> the <i>Start</i> button. The camera track mode has been set.
11	<b>PRESS</b> the <i>Frame Display</i> and <i>Data Screen</i> buttons. The frame and data screen will disappear from the TV monitor.
12	<b>CONFIRM</b> that the camera is tracking the instructor as the instructor moves around the room.
	Ability for the classroom camera to autotrack the instructor.

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### 4. Netblazer Backup Capability\*

\*This feature is supported only at remote-located classrooms. Therefore, the following procedures will apply only to remote-located classrooms. These procedures need to be performed at only one of student PCs.

Step	Action
1	<b>GO TO</b> Start/Programs/MS DOS Prompt
2	The Windows> prompt will appear
3	<b>TYPE</b> the following with the appropriate STARC router IP address: ping -t <132.xxx.127.193> <b>PRESS</b> the Return key
4	The following message should appear and continuously repeat: Reply from <IP address>: bytes=32 time=2ms TTL=32
5	<b>GO TO</b> Start/Run
6	The “Run” screen will appear
7	In the “Open” field, <b>TYPE</b> : Telnet
8	The “Telnet” screen will appear
9	<b>GO TO</b> Connect/Remote System
10	The “Connect Window” screen will appear <b>TYPE</b> the STARC router IP address

Step	Action
11	The Router logon prompt will appear <b>TYPE</b> the login ID <b>TYPE</b> the login Password
12	The > prompt will appear
13	With the MS-DOS window and Telnet window still active, <b>WALK</b> to the classroom rack <b>DISCONNECT</b> the V.35 interface from the FVC switch <b>WALK</b> back to the PC
14	After the V.35 cable is disconnected, <b>CONFIRM</b> that the following message appears on the MS-DOS screen: Request timed out
15	From the classroom NetBlazer, <b>CONFIRM</b> that the Receive Data (RD) indicator is activated. It may take a moment for this connectivity.
16	After the NetBlazer RD indicator is lit, <b>GO TO</b> the Telnet window <b>CLICK</b> the mouse within the window <b>PRESS</b> the Return key twice
17	<b>VIEW</b> the MS-DOS window <b>CONFIRM</b> the following messages have reappeared: Reply from <IP address>: bytes=32 time=2ms TTL=32
18	<b>RECONNECT</b> the V.35 cable
	From a remote-located classroom, ability for the Netblazer to provide back-up connectivity.

## I. VTT MULTIMEDIA CAPABILITIES

### A. Required Items

#### 1. Software

No.	Item
1	Sample MS Word file

#### 2. Other

No.	Item
1	Sample VHS tape to play on the VCR
2	Blank VHS tape to record on the VCR
3	Sample 8 ½ " x 11" document.
4	Blank 8 ½ " x 11" sheets of paper
5	Classroom Printer/Copier/Fax number to test fax transmissions
6	User IDs to log on to the PCs
7	STARC router address
8	NOC telephone number to collaborate with for VTC
9	NOC fax number

## B. Required Setup

### 1. Preparation

Step	Action
1	Classroom is fully installed.
2	All equipment power is connected.
3	All devices at the Cabinet and Instructor's desk are powered on.
4	<b>PHONE</b> the NOC. <b>INFORM</b> them that all devices are connected and ready to be pinged. (The NOC will conduct an independent capabilities scenario. They will ping every network device in the classroom.)

### 2. Log on to Crestron Touch Panel

Step	Action
1	<b>TOUCH</b> anywhere on the opening screen.
2	<i>User Password</i> screen will appear.
3	<b>ENTER</b> password.
4	The <i>Main Menu</i> will appear.

### 3. Seat IR Probes

The IR probe must rest directly on top of the IR sensor of the equipment to enable remote control from the Touch Panel. The IR sensors are hard to locate; locating them will require the joint effort of two team members: one to work the controls at the Touch Panel, the other to locate the IR probe sensors at the devices. The following devices need their IR probes seated: the camera, 2 NetTVs, and the VCR (Cabinet).

NOTE: The IR probes may have already been seated during the installation.

#### a) Camera

At the Touch Panel perform the following:

Step	Action
1	From the <i>Main Menu</i> , <b>PRESS</b> the <i>Multimedia Devices</i> button.
2	The <i>Multimedia Control</i> screen will appear.
3	<b>PRESS</b> the <i>Camera</i> button.
4	The <i>Camera Control</i> screen will appear.
5	<b>USE</b> the pan-tilt-zoom controls to try to move the camera.

At the Camera perform the following:

Step	Action
1	<b>TAPE</b> the top of the IR probe with transparent tape.
2	<b>MOVE</b> the IR probe around the IR sensor panel until the camera responds to the Touch Panel control.
3	<b>TAPE</b> the IR probe securely to the device.



## b) NetTVs

At the Touch Panel perform the following:

Step	Action
1	<b>PRESS</b> the <i>Previous Menu</i> button.
2	The <i>Multimedia Control</i> screen will appear.
3	<b>PRESS</b> the <i>TV</i> button.
4	The <i>TV Control</i> screen will appear.
5	<b>PRESS</b> the <i>TV Left</i> button.
6	<b>PRESS</b> the TV channel controls until the TV responds. (NOTE: The Cabinet VCR will be registering the channel controls.)
7	<b>REPEAT</b> for the Right TV.

At the TVs perform the following:

Step	Action
1	<b>TAPE</b> the top of the IR probe with transparent tape.
2	<b>MOVE</b> the IR probe around the IR sensor panel until the TV responds to the Touch Panel control.
3	<b>TAPE</b> the IR probe securely to the device.
4	<b>REPEAT</b> for the Right TV.

## c) VCR

At the Touch Panel perform the following:

Step	Action
1	<b>PRESS</b> the <i>Previous Menu</i> button.
2	The <i>Multimedia Control</i> screen will appear.
3	<b>PRESS</b> the <i>Cabinet VCR</i> button.
4	The <i>Cabinet VCR</i> screen will appear.
5	<b>INSERT</b> a sample VHS tape in the VCR.
6	<b>PRESS</b> the forward (FWD) and rewind (REW) buttons until the VCR responds. (NOTE: The tape count on the VCR will increase and/or decrease in response to the controls.)

At the Cabinet VCR perform the following:

Step	Action
1	<b>TAPE</b> the top of the IR probe with transparent tape.
2	<b>MOVE</b> the IR probe around the IR sensor panel until the cabinet VCR responds to the Touch Panel control.
3	<b>TAPE</b> the IR probe securely to the device.

## 4. Control Panel

Use the Touch Panel to test the basic functionality of the devices.

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### a) Left TV

Step	Action
1	<b>GO TO</b> the <i>Multimedia Devices</i> screen.
2	<b>PRESS</b> the <i>TV Select</i> button.
3	The <i>TV Control</i> screen will appear.
4	<b>PRESS</b> the <i>Left TV</i> button.
5	<b>VERIFY</b> that all the left TV controls are operational.

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### b) Right TV

Step	Action
1	<b>GO TO</b> the <i>Multimedia Devices</i> screen.
2	<b>PRESS</b> the <i>TV Select</i> button.
3	The <i>TV Control</i> screen will appear.
4	<b>PRESS</b> the <i>Right TV</i> button.
5	<b>VERIFY</b> that all the Right TV controls are operational.

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### c) Camera

Step	Action
1	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
2	<b>MAP</b> the Camera (source device) to the Left TV (destination device).
3	The Camera video input will appear on the Left TV.
4	<b>PRESS</b> the <i>Main Menu</i> button.
5	<b>PRESS</b> the <i>Multimedia Devices</i> button.
6	The <i>Multimedia Control</i> screen will appear.
7	<b>PRESS</b> the <i>Camera</i> button.
8	The <i>Camera Control</i> screen will appear.
9	<b>VERIFY</b> that all the camera controls are operational.

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### d) Push-to-Talk Microphones

Step	Action
1	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
2	<b>MAP</b> the Camera (source device) to the Left TV and to the Right TV (destination devices).
3	The Camera video input will appear on the TVs.
4	<b>PRESS</b> the button on the Push-to-Talk microphones, one at a time. <b>VERIFY</b> that the camera hones in on the activated microphone and returns to the "Room" position after the microphone is released.

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#### e) Cabinet VCR

Step	Action
1	<b>INSERT</b> a sample VHS into the Cabinet VCR.
2	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
3	<b>MAP</b> the Cabinet VCR (source device) to the Right TV (destination device).
4	The cabinet VCR output will appear on the Right TV.
5	<b>PRESS</b> the <i>Multimedia Devices</i> button.
6	The <i>Multimedia Control</i> screen will appear.
7	<b>PRESS</b> the <i>Cabinet VCR</i> button.
8	The <i>Cabinet VCR</i> screen will appear.
9	<b>VERIFY</b> that all the cabinet VCR controls are operational.

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#### f) Instructor's VCR

Step	Action
1	<b>INSERT</b> a sample VHS into the Instructor's VCR.
2	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
3	<b>MAP</b> the Instructor's VCR (source device) to the Right TV (destination device).
4	The instructor's VCR output will appear on the Right TV.
5	<b>PRESS</b> the <i>Multimedia Devices</i> button.
6	The <i>Multimedia Control</i> screen will appear.
7	<b>PRESS</b> the <i>Instructor's VCR</i> button.
8	The <i>Instructor's VCR</i> screen will appear.
9	<b>VERIFY</b> that all the cabinet VCR controls are operational.

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#### g) Volume Control

Step	Action
1	<b>GO TO</b> the <i>Audio/Video Mapper</i> screen.
2	<b>MAP</b> the Satellite/VCR/CTV (source device) to the Left TV (destination device).
3	MAP the Satellite/VCR/CTV (source device) to the classroom Speakers (destination device).
4	If nothing appears on the left TV monitor, <b>USE</b> the TV control panel to channel the TV to a station.
5	<b>VERIFY</b> that the sound is coming from the classroom speakers. <b>VERIFY</b> that all volume control features are operational.

## 5. Instructor's Desk and/or Student PCs

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### a) Log On

Step	Action
1	<b>POWER ON</b> the PC
2	After the PC is powered up, the network prompt should appear. <b>TYPE</b> the user ID <b>TYPE</b> the password <b>PRESS Enter</b>
3	<b>OBTAIN</b> the STARC router address to ping to the STARC router. <b>GO TO</b> the MS/DOS prompt <b>TYPE:</b> ping <STARC router address>
4	<b>CONFIRM</b> that the PC can ping to the router
	Ability to log on to the NT domain Ability to ping to the STARC router

## II. VTT Networking Capabilities

### A. Personal Computers

#### 1. Perform Primary Functions on Instructor and Student PCs

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##### a) *Execute Windows Applications*

Step	Action
1	<b>STARTUP</b> "Windows"
2	<b>EXECUTE</b> "Windows Explorer"
3	<b>VERIFY</b> "Windows Explorer" is operational
4	<b>EXIT</b>
5	<b>EXECUTE</b> "PowerPoint"
6	<b>VERIFY</b> "PowerPoint" is operational
7	<b>EXIT</b>
8	<b>EXECUTE</b> "MS Word"
9	<b>VERIFY</b> "MS Word" is operational
	Ability to access and operate local PC applications and productivity tools, such as Windows Explorer, PowerPoint, and MS Word.

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##### b) *Print a File to the Network Printer*

Step	Action
1	<b>OPEN</b> a sample "MS Word" file
2	<b>PRINT</b> the file to the network printer
3	<b>CONFIRM</b> that the document has successfully printed (Postscript printing is not available on this printer.)
4	<b>EXIT</b>
	Ability to print files from the PC to the network printer.

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##### c) *Execute Netscape*

Step	Action
1	<b>RUN</b> "Netscape Navigator"
2	In the Netsite field, <b>TYPE</b> : <i>http://www.cnn.com</i>
3	<b>CONFIRM</b> that the CNN home page is found
4	<b>EXIT</b>
	Ability to access the internet via Netscape.

## 2. Perform Net Meetings

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### a) Instructor's PC

Step	Action
1	<b>EXECUTE</b> "MS NetMeeting"
2	The instructor's PC will be the host. <b>GO TO</b> the <i>Call</i> menu. <b>SELECT</b> the <i>Host Conference</i> option. <b>SELECT</b> the <i>Place Advanced Call</i> option. <b>SELECT</b> <i>TCP-IP</i> option.
3	(See Step 2 of the Student PCs)
4	From the host PC, <b>TYPE</b> the IP address of the other PC. <b>PRESS</b> the <i>Call</i> button.
5	(See Step 3 of the Student PCs)
6	<b>GO TO</b> <i>Tools</i> menu. <b>SELECT</b> <i>Chat</i> .
7	<b>GO TO</b> <i>Tools</i> menu. <b>SELECT</b> <i>Whiteboard</i> .
8	<b>WRITE/DRAW</b> messages on the whiteboard
9	<b>CONFIRM</b> that the Instructor's PC workstation can see everyone's graphical input on the whiteboard.
	Ability to participate in a NetMeeting with video capabilities. Ability to view in real-time visual input from all participating PCs.

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### b) Student PCs

Step	Action
1	<b>EXECUTE</b> "MS NetMeeting" on all PCs.
2	<b>DETERMINE</b> the IP address: <b>RUN</b> "WIN IP Configuration"
3	(See Step 4 of the Instructor's PC)
4	The <i>Accept Call</i> prompt will appear. <b>PRESS</b> the Yes button.
5	<b>GO TO</b> the <i>Tools</i> menu. <b>SELECT</b> <i>Chat</i> .
6	<b>GO TO</b> <i>Tools</i> menu. <b>SELECT</b> <i>Whiteboard</i> .
7	<b>WRITE/DRAW</b> messages on the whiteboard.
8	<b>CONFIRM</b> that all the PC workstations can see everyone's graphical input on the whiteboard.
	Ability to participate in a NetMeeting with video capabilities. Ability to view in real-time visual input from all participating PCs.

## B. Instructor's PC

### 1. Video Teleconference

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#### a) Point-to-Point On-Net

Step	Action
10	<b>PHONE</b> the NOC. Obtain the following: - Scheduled time to dial-up the NOC or DEMO classroom for a trial VTC - The On-Net DID and Arlington V-Gate ATM address
11	<b>GO TO</b> Start/Programs/Zydacron OnWAN/FVC MGS Client Status <b>VERIFY</b> that the "Enable Access to V-Gate" option is <b>CHECKED</b> From the "V-Gate Server" option, <b>SELECT</b> "VGate Arl"
12	Using the Touch Screen, <b>GO TO</b> the Audio/Video Mapper control screen <b>MAP</b> the "Camera" to the "Outgoing Video" <b>MAP</b> the "Instructor's PC" to the "Instructor's Monitor" <b>MAP</b> the "Incoming Conference" to the "Left TV monitor"
13	At the assigned dial-up time perform the following: From the Instructor's PC, <b>GO TO</b> Start/Programs/Video Teleconferencing" <b>EXECUTE</b> the "ON-WAN" application <b>DIAL</b> the NOC/DEMO classroom.
14	After a VTC connection is established, <b>USE</b> the Push-to-Talk microphones and <b>CONFIRM</b> that the video and audio transmissions are completely operational. (The NOC can hear and see the classroom, and vice versa.) <b>CONFIRM</b> that the camera hones in on activated Push-to-Talk microphones.
15	<b>ALLOW</b> the NOC (remote site) to control the classroom camera. <b>CONFIRM</b> that the NOC can successfully control the classroom camera.
16	From the Instructor's PC, use the ON-WAN program to control the NOC camera (remote site) by performing the following: From the ON-WAN application go the TOOLS/Camera Controller pull-down menu. The Camera Controller screen will appear. <b>SELECT</b> the "Far-End Camera" option. <b>PRESS</b> the FECC button. The green bar on the right of the button will flash until the connection is completed. <b>USE</b> the Pan/Zoom/Tilt controls to remotely control the NOC camera.
17	<b>CONFIRM</b> that the classroom Instructor can control the remote camera.

Step	Action
18	<p><b>CONFIRM</b> that the video and audio transmissions are completely operational for the following:</p> <ul style="list-style-type: none"> <li>• <b>PUT</b> a sample document on the document camera. From the Touch Screen <b>MAP</b> the “Document Camera” to the “Out-going Conference”</li> <li>• From the Touch Screen, <b>MAP</b> the “Cabinet VCR” to the “Out-going Conference”</li> <li>• From the Touch Screen, <b>MAP</b> the “Instructor’s VCR” to the “Out-going Conference”</li> <li>• From the Instructor’s PC, <b>MINIMIZE</b> the ON-WAN application. <b>EXECUTE</b> PowerPoint <b>MAP</b> the “Instructor’s PC” to the “Out-going Conference”</li> </ul>
	<p>Ability for up to 4 students to participate in training sessions using Push-To-Talk microphones or a conferencing speaker phone</p> <p>Ability to conduct a VTC with audio and video input from the camera and microphones, the document camera, the cabinet VCR, the instructor’s VCR, and the instructor’s PC.</p> <p>Ability to control a remote site’s camera from the classroom, and vice versa. (Ability for a remote site to control the classroom camera.)</p>

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#### b) Multi-Point On-Net

Step	Action
1	<p>Using the Touch Screen, <b>GO TO</b> the <i>Audio/Video Mapper</i> control screen <b>MAP</b> the “Camera” to the “Outgoing Video” <b>MAP</b> the “Instructor’s PC” to the “Instructor’s Monitor” <b>MAP</b> the “Instructor’s PC” to the Left or Right TV.</p>
2	<p><b>PHONE</b> the NOC and schedule a time to dial-up the MCU in the NOC. <b>OBTAIN</b> the MCU number.</p>
3	<p>At the assigned dial-up time perform the following: From the Instructor’s PC, <b>GO TO</b> “Start/Programs/Video Teleconferencing” <b>EXECUTE</b> the “ON-WAN” application <b>DIAL</b> the NOC’s MCU.</p>
4	<p>After a VTC connection is established, <b>USE</b> the Push-to-Talk microphones and <b>CONFIRM</b> that the video and audio transmissions are completely operational. (The other connected VTC sessions can hear and see the classroom, and vice versa.) <b>CONFIRM</b> that the camera hones in on activated Push-to-Talk microphones.</p>
	<p>Ability to perform a VTC connection to a remote site’s MCU.</p>



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**a) Point-to-Point Off-Net**

Step	Action
6	<b>PHONE</b> the NOC. Obtain the following: - Scheduled time to dial-up the NOC or DEMO classroom for a trial VTC - The Off-Net (“live”) DID and Arlington V-Gate ATM address
7	<b>GO TO</b> Start/Programs/Zydacron OnWAN/FVC MGS Client Status <b>VERIFY</b> that the “Enable Access to V-Gate” option is <b>CHECKED</b> From the “V-Gate Server” option, <b>SELECT</b> the local V-Gate
8	Using the Touch Screen, <b>GO TO</b> the Audio/Video Mapper control screen <b>MAP</b> the “Camera” to the “Outgoing Video” <b>MAP</b> the “Instructor’s PC” to the “Instructor’s Monitor” <b>MAP</b> the “Incoming Conference” to the “Left TV monitor”
9	At the assigned dial-up time perform the following: From the Instructor’s PC, <b>GO TO</b> Start/Programs/Video Teleconferencing <b>EXECUTE</b> the “ON-WAN” application <b>DIAL</b> the NOC/DEMO classroom.
10	After a VTC connection is established, <b>USE</b> the Push-to-Talk microphones and <b>CONFIRM</b> that the video and audio transmissions are completely operational. (The NOC can hear and see the classroom, and vice versa.) <b>CONFIRM</b> that the camera hones in on activated Push-to-Talk microphones.

## C. General

CAC VTT



### 1. Polycom and Speaker Phone

NOTE: The speaker phone for the Push-to-Talk microphones and the Polycom will be connected to 2 different POTS lines.

Step	Action
1	<b>USE</b> the Polycom to call the NOC.
2	<b>COMMUNICATE</b> verbally back and forth, on the Polycom Omni-directional microphone.
3	<b>VERIFY</b> that two-way communication is operational.
	Ability to place phone calls.

CAC VTT



### 2. Dual VCR Feature (Play Tape/Record VTC)

From the Instructor's VCR:

Step	Action
1	<b>INSERT</b> a sample VHS tape into the Instructor's VCR.
2	From the Touch Screen, <b>MAP</b> the "Instructor's VCR" to "NET TV Right." <b>POWER ON</b> the "Instructor's VCR." <b>PRESS</b> the <i>Play</i> button. <b>CONFIRM</b> that the VCR output is seen and heard on the NET TV Right monitor.
	Ability to play a video tape presentation from the instructor's VCR and view it on a large screen monitor while simultaneously record the classroom camera input to the cabinet VCR.

From the Cabinet VCR:

Step	Action
1	<b>INSERT</b> a blank VHS tape into the Cabinet VCR.
2	From the Touch Screen, <b>MAP</b> the camera to the "Cabinet VCR" <b>PRESS</b> the record button from the "Cabinet VCR" control panel. After recording for several seconds, <b>PRESS</b> the <i>Stop</i> button. <b>PRESS</b> the <i>Rewind</i> button.
3	From the Touch Screen, <b>MAP</b> the "Cabinet VCR" to the "NET TV Right" monitor. <b>PRESS</b> the "PLAY" button from the Cabinet VCR control panel.
4	<b>CONFIRM</b> that the Cabinet VCR has successfully recorded the video input of the camera.
	Ability to play a video tape presentation from the instructor's VCR and view it on a large screen monitor while simultaneously record the classroom camera input to the cabinet VCR.

CAC VTT



### 3. Camera

Step	Action
1	<b>ASSIGN</b> a Team member as the “instructor” to test the Track mode.
2	From the Touch Panel, <b>MAP</b> the Camera to the TV Left and/or Right.
3	<b>PRESS</b> the <i>Autotrack (AT) On</i> button.
4	<b>PRESS</b> the <i>Frame Display</i> button.
5	A white frame will appear on the TV monitor.
6	<b>PRESS</b> the <i>Data Screen</i> button.
7	A data screen will appear on the TV monitor.
8	<b>PRESS</b> the <i>Chase</i> button until the Chase mode is 3.
9	<b>USE</b> the pan-zoom-tilt controls to zoom in on the instructor’s face.
10	When the resolution reaches at least 50, <b>PRESS</b> the <i>Start</i> button. The camera track mode has been set.
11	<b>PRESS</b> the <i>Frame Display</i> and <i>Data Screen</i> buttons. The frame and data screen will disappear from the TV monitor.
12	<b>CONFIRM</b> that the camera is tracking the instructor as the instructor moves around the room.
	Ability for the classroom camera to autotrack the instructor.

CAC VTT



### 4. Netblazer Backup Capability\*

\*This feature is supported only at remote-located classrooms. Therefore, the following procedures will apply only to remote-located classrooms. These procedures need to be performed at only one of student PCs.

Step	Action
1	<b>GO TO</b> Start/Programs/MS DOS Prompt
2	The Windows> prompt will appear
3	<b>TYPE</b> the following with the appropriate STARC router IP address: ping -t <132.xxx.127.193> <b>PRESS</b> the Return key
4	The following message should appear and continuously repeat: Reply from <IP address>: bytes=32 time=2ms TTL=32
5	<b>GO TO</b> Start/Run
6	The “Run” screen will appear
7	In the “Open” field, <b>TYPE</b> : Telnet
8	The “Telnet” screen will appear
9	<b>GO TO</b> Connect/Remote System
10	The “Connect Window” screen will appear <b>TYPE</b> the STARC router IP address

Step	Action
11	The Router logon prompt will appear <b>TYPE</b> the login ID <b>TYPE</b> the login Password
12	The > prompt will appear
13	With the MS-DOS window and Telnet window still active, <b>WALK</b> to the classroom rack <b>DISCONNECT</b> the V.35 interface from the FVC switch <b>WALK</b> back to the PC
14	After the V.35 cable is disconnected, <b>CONFIRM</b> that the following message appears on the MS-DOS screen: Request timed out
15	From the classroom NetBlazer, <b>CONFIRM</b> that the Receive Data (RD) indicator is activated. It may take a moment for this connectivity.
16	After the NetBlazer RD indicator is lit, <b>GO TO</b> the Telnet window <b>CLICK</b> the mouse within the window <b>PRESS</b> the Return key twice
17	<b>VIEW</b> the MS-DOS window <b>CONFIRM</b> the following messages have reappeared: Reply from <IP address>: bytes=32 time=2ms TTL=32
18	<b>RECONNECT</b> the V.35 cable
	From a remote-located classroom, ability for the Netblazer to provide back-up connectivity.